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**EAST CAROLINA TEACHERS COLLEGE
BULLETIN**

GRADUATE INSTRUCTION

GREENVILLE, NORTH CAROLINA

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CALENDAR 1942-1943

SUMMER QUARTER 1942

- June 4 Thursday—Registration for first term
June 5 Friday—Class work begins
June 11 Thursday—Last day to register
July 4 Saturday—Holiday
July 15 Wednesday—First term ends
July 16 Thursday—Registration for second term
July 23 Thursday—Last day to register
Aug. 22 Saturday—Summer school closes

FALL QUARTER 1942

- Sept. 22-23 Tuesday and Wednesday—Freshman registration
Sept. 24 Thursday—Registration of upperclassmen
Sept. 25 Friday—Class work begins
Oct. 8 Thursday—Last day to register
Nov. 25 Wednesday, 12 M.—Thanksgiving holiday begins
Nov. 30 Monday, 8:00 A. M.—Class work resumed
Dec. 18 Friday, 12 M.—Fall quarter closes, Christmas recess begins

WINTER QUARTER 1943

- Jan. 4 Monday—Registration and classification
Jan. 5 Tuesday, 8:00 A. M.—Class work begins
Jan. 18 Monday—Last day to register
Mar. 13 Saturday—Winter quarter closes, Spring recess begins

SPRING QUARTER 1943

- Mar. 18 Thursday—Registration and Classification
Mar. 19 Friday, 8:10 A. M.—Class work begins
April 1 Thursday—Last day to register
May 27 Thursday, 4:25 P. M.—Examinations close
May 28 Friday to May 31, Monday—Commencement exercises

SUMMER QUARTER 1943

June 3-----Thursday—Registration for first term
June 4-----Friday—Class work begins
June 10-----Thursday—Last day to register
July 14-----Wednesday—First term ends
July 15-----Thursday—Registration for second term
July 22-----Thursday—Last day to register
Aug. 27-----Friday—Summer school closes

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PART ONE

OFFICERS AND GRADUATE FACULTY

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PART TWO

GRADUATE INSTRUCTION

Purpose. Graduate instruction is organized to provide for three classes of graduate students: first, those who wish to become school administrators or supervisors; second, those who wish to secure Graduate Certificates; and, third, those who wish to do work beyond the Bachelor's Degree without reference to a higher degree or certification.

Faculty. The administration and direction of graduate instruction is in charge of a Director of the Department of Graduate Instruction and a committee of five members of the faculty appointed by the President of the College. The teaching faculty of Graduate Instruction includes only those members of the college faculty specially designated by the directors of the departments that offer graduate work.

Library. The East Carolina Teachers College Library is making every effort consistent with its major program to meet the needs of the graduate department. The same fully-trained staff that serves during the academic year functions during the entire summer session. A consistent effort has been made, and is continuing, to complete sets of periodicals and journals of value to graduate students. The holdings of the congressional proceedings have recently been tripled.

The Library now has over 40,000 volumes, many of which were purchased specifically or mainly for graduate use at the requests of those faculty members interested in graduate courses. The reference collection contains practically all the major reference sets in English and several in other languages.

It is the established policy of the Library to make every reasonable effort to secure materials needed that we do not have; if it is not possible to do so by purchase, then it usually is by borrowing or photographing in larger institutions.

ADMISSION TO GRADUATE INSTRUCTION

Admission to graduate instruction must be made to the Director of Graduate Instruction. Blanks for this purpose may be secured from his office.

To be admitted to graduate instruction the candidate must hold a Bachelor's Degree from this college or from some other institution of equal rank or lack not more than six quarter hours of work to complete the residence requirement for the Bachelor's Degree, provided he is recommended for graduate standing by the director of his major department. He must also have met the undergraduate requirements for his major and minor fields and made not less than an average grade of three in all his undergraduate work.

If the undergraduate work of an applicant does not show the completion of at least fifteen quarter hours in English, nine of which shall be Composition, and twenty-four quarter hours in a combination of Education and Psychology, such deficiencies shall be made up before the Master's Degree will be conferred.

Admission to graduate instruction is not equivalent to admission to candidacy for the degree of Master of Arts.

Transcripts. Graduates from other institutions must present an official transcript of all high school and college work completed. This transcript shall be filed with the Registrar of the College before the first enrollment.

General Information. Each graduate student should choose a major field and consult the director of graduate study in that department with reference to the work to be done in that department.

Each graduate is also expected to select a minor field of study. This should be chosen as nearly as possible to supplement the student's work in the major field.

Courses numbered 300 to 399 may be taken by graduate students if they are designated in the catalog as being open to graduate students. However, not more than twelve quarter hours of work may be taken from courses numbering below 400.

Courses numbering 400 or above in the general college catalog are open to graduate students only.

Marks. Credit is given for graduate work only for marks "1," "2," and "3." However, two-thirds of a student's work must be above a "3."

Transfer of Credit. A limited amount of acceptable graduate credit earned in a fully accredited institution may be offered to apply on the Master of Arts degree. Such credit is allowed only on the recommendation of the department or departments concerned and the approval of the Committee on Graduate Instruction.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Admission to Candidacy. Each student must make application to the Director of Graduate Instruction for admission to candidacy not later than the first week of the quarter or summer session at the close of which the degree is to be conferred.

Residence. At least three full quarters must be spent in residence, provided that nine quarter hours shall count as the minimum of work for one quarter in residence.

Course Requirements. A candidate for the degree of Master of Arts may complete either of the following plans of work:

- a. Eighteen quarter hours in a major field, nine quarter hours in education and psychology or in a combination of both, six quarter hours of seminar, twelve quarter hours of electives, and a thesis. The electives shall be chosen with the advice of the director of the major department and should be so chosen as to qualify the candidate for a Graduate Certificate.
- b. Twenty-four quarter hours in a major field, nine quarter hours in education and psychology or in a combination of both, and twelve hours of electives to be chosen with the advice of the director of the major department. The electives should be so chosen as to qualify the candidate for the Graduate Certificate.

Not more than fifteen quarter hours of work may be taken in any one quarter.

Thesis. If a thesis is written it must show the result of an investigation of some educational problem related to the major field. The subject of the thesis must be approved by the director of the major department and by the Committee on Graduate Instruction at least two quarters before the degree is conferred. One approved typewritten copy of the thesis must be filed with the librarian of the college and one copy must be filed with the director of the major department before the degree is conferred.

No credit is given for the seminar until after the thesis has been finally approved.

Teaching Ability. Each student must satisfy the Committee on Graduate Instruction as to his ability to teach. This may be done in either of two ways: (a) successful teaching experience, or (b) successful student teaching.

PART THREE

GENERAL INFORMATION

FEES AND EXPENSES

Day Students. The fee for day students, i.e., those not living in one of the college dormitories, is \$33.50 per quarter of twelve weeks.

Dormitory Students. The fee for dormitory students is \$93.50 per quarter. This fee covers tuition, instruction, board, room, laundry, rental of textbooks, admission to college entertainments, subscription to the college paper, and infirmary service for minor illness.

Reservation Fee. A reservation fee of \$5.00 must accompany the application for admission from all students. The fee is credited to the student's account, provided he enrolls in the quarter for which reservation is made. If he wishes to withdraw his application and notifies the college in writing at least two weeks before the opening of the quarter, the fee will be returned, except that no refund of a fall quarter fee will be made if requested after September tenth.

Fees Payable Each Quarter by All Students

	Board and Room	Registration Books, etc.	Tuition	Student Activity	Total
Day Student		\$7.50	\$20.00	\$6.00	\$33.50
Dormitory Student	\$60.00	\$7.50	\$20.00	\$6.00	\$93.50

All the fees above, except the student activity fee, must be paid to the Treasurer at the beginning of the quarter.

The student activity fee must be paid to the Treasurer of the Student Fund at the beginning of the quarter.

Other Fees

Non residents of N. C. (per quarter)	\$20.00
Private music lessons (per quarter)	7.00
Laboratory fees in certain subjects	2.00
Diploma fee (with application for graduation)	5.00
Late registration	1.00
Changes in schedule (per subject)	.25
Transcript (after first)	.50
"Auditor" in one or more courses	6.00
Infirmary fee*	1.00

*Charged day students not living in own homes. Gives infirmary service.

Special students, i.e., day students who schedule not more than six credit hours per quarter, will pay a fee of \$2.00 per credit hour scheduled.

These fees are subject to revision by the Board of Trustees of the college.

To be exempt from the out-of-state fee:

1. The parents or guardian of a student must be residents of the state at the time of his registration, or
2. The student must have established residence in the state at least six months before he entered the college.

A resident student is construed to be one who actually lives in the State and not one who has merely moved into the State for the purpose of securing an education from one of the State Institution.

Withdrawals, Refunds, Credits. Students who, for any reason, withdraw from the college before the end of any quarter will have a proportionate part of the amount paid for board refunded. In addition, if a student withdraws before registration for the quarter is closed, one-half of the fees for room and tuition will also be refunded. Refund will be calculated from the date of official withdrawal from the College.

A student desiring to withdraw from college should do so with the consent of his parent or guardian and the approval of the Registrar. Students who withdraw unofficially are not eligible to re-enroll in the college.

Credit. No degree, diploma, or certificate will be granted or a transcript of credits furnished a student until all financial obligations to the college, other than student loans, have been paid.

All previously incurred expenses at the college must be fully paid or secured before a student may re-enter at the beginning of any quarter.

Student Loan Fund. If a student who is doing graduate work in the College needs additional money to help finance his education, he may make application for a loan to the Loan Fund Committee of the College. However, no student may borrow more than the actual college expenses for any one quarter, and no student may borrow a total of more than \$250.00. Application for a loan must be made to the Treasurer on blanks furnished for that purpose. Application should be made at least two weeks before the beginning of the quarter for which the loan is desired.

Scholarship and student government records are considered in awarding loans.

PART FOUR

DEPARTMENTS OF GRADUATE INSTRUCTION

ADMINISTRATION AND SUPERVISION

Mr. Henderson and Mr. Adams

SENIOR AND GRADUATE COURSE

330. Educational Statistics.

Three hours a week. Credit: three quarter hours.
Designed for prospective principals and supervisors.

Aim: to drill students in manipulation of educational data for purposes of interpretation.

Topics: tabular and graphic methods; measures of central tendency, variability, and relationships; norms; T-score; B-score; and principles of sampling.

GRADUATE COURSES

405. Administration of the Elementary School.

Three hours a week. Credit: three quarter hours.

This course deals with such topics as: selection and training of teachers; the place of the teacher in the administrative program; child accounting; school discipline and its relation to administration; and the general relation of the elementary school to the community.

406. The Elementary School Principal.

Three hours a week. Credit: three quarter hours.
For those preparing to be elementary school principals.

Topics: personality and training of the principal; administrative and supervisory duties; relation to the county; management of his office; division of his time.

407. Budgets and Accounting for Public Schools.

Three hours a week. Credit: three quarter hours.
Designed for school principals.

Topics: sources, management, and expenditure of school revenue; value of community property; indebtedness and taxation; growth of school population and cost per capita; and other data necessary for intelligent budget-making and accounting.

408. Public School Administration.

Three hours a week. Credit: three quarter hours.
Designed for school principals and supervisors.

Topics: development of administrative units of our public school systems; boards of education; relation of superintendent to the school and the public; preparation, tenure, and promotion of teachers; publicity and education of the public; pupil accounting and records.

409. High School Administration.

Three hours a week. Credit: three quarter hours.

This course treats such topics as: the selection and training of the teaching staff; the place of the teacher in the high school administrative program; pupil accounting; pupil guidance; curricular offerings and organization; extra-curricular activities and their relation to the school program; and the relation of the high school to the community.

421. Curricula for Public Schools.

Three hours a week. Credit: three quarter hours.
Required of students preparing to meet State requirements for principals and supervisors of elementary schools.

Topics: needs for curricula revision; principles of curriculum revision; tendencies in the organization of elementary and high school subjects; type studies.

426. Theories of Education.

Three hours a week. Credit: three quarter hours.
Required of students preparing to meet State requirements for principals and supervisors of elementary schools.

Topics: European and American movements and influences from Comenius, Rousseau, Pestalozzi, Froebel, Herbart, Mann, Parker, Dewey, and others, who are directly and indirectly responsible for modern educational theory and practices in the elementary and high schools.

428. Supervision of Instruction.

Three hours a week. Credit: three quarter hours.
Required of students preparing to meet State requirements for principals and supervisors.

Topics: functions of the supervisor; ways and means of promoting better classroom teaching; adaptation of course of study to special needs of community; relation of supervisor and teacher; technique of criticism.

429. Instructional Problems of the Unadjusted Child.

Three hours a week. Credit: three quarter hours.

This course makes a detailed study of the problems of

the unadjusted child; diagnosis of particular difficulties and application of remedial measures.

430. Educational Statistics.

Three hours a week. Credit: three quarter hours. Designed for prospective principals and supervisors. Continuation of Administration and Supervision 330. Prerequisite: Educational Statistics 330.

Topics: partial correlations, multiple correlations, linear regressions, use of normal probability curve to interpret data; weighing scores; comparing groups; tabulations, etc.

431. Apprentice Work in Administration and Supervision.

Six hours a week. Credit: three quarter hours. Designed for all those preparing to be principals or supervisors.

Each student in this course is assigned to a principal or supervisor as an assistant in actually doing the work the student will be required to do as a principal or supervisor. Each student is required to attend conferences between the principal and his staff, the supervisor and his teachers, and any other meetings held for groups of teachers, supervisors, or principals.

432. Training Teachers in Service.

Three hours a week. Credit: three quarter hours. For prospective principals and supervisors.

Topics: evaluation of the different types of in-service training, study groups, conference groups, extension groups, teachers' meetings, county and state associations, reading clubs, experimental teaching.

EDUCATION

Mr. Adams, Miss Coates, Miss Charlton, Mr. Haynes,

Mr. Henderson, Mr. McGinnis, Miss Newell

SENIOR AND GRADUATE COURSE

306. Social Sciences in the Primary Grades.

Winter quarter. Three hours a week. Credit: three quarter hours.

The purpose of this course is to show child development through social science experiences.

Topics: ways the social sciences develop; content of the social sciences; arrangement of environment conducive to children's social growth; participating in making records

of children's social science curriculum in action; organizing potential units of work; and making studies of play materials, books, pictures, and stories.

GRADUATE COURSES

400. a.b.c. Seminar.

Two hours a week. Three quarters. Credit: six quarter hours.

In this course each student, under the direction and guidance of his adviser, presents at least one problem or subject each quarter. These problems are to be discussed and each student is supposed to take the lead in the discussion of his problem. Problems are to be chosen from major fields. The study of the problem must show original research or original organization on the part of the student presenting it.

405. Investigations in the Teaching of Reading.

Three hours a week. Credit: three quarter hours.

The course consists in making an analytical study of researches that have been reported on the various phases of the teaching of reading. The child's difficulties in becoming familiar with the reading processes, the teaching difficulties in the subject, remedial work designed for the child's benefit, and a critical evaluation of the research studies with special reference to the psychological principles involved and the educational implications to be derived are given serious consideration in this course.

412. Improvement of Reading Instruction in the Primary Grades.

Three hours a week. Credit: three quarter hours. This course is planned for teachers of experience. Individual teaching problems will be given consideration.

Topics: Factors conditioning children's success in reading; a study of the experiences of children which affect their reading interests; the utilization of these interests in the acquiring of desirable reading attitudes, habits, and skills; evaluation of methods of teaching reading, and materials characteristic of current practice. Demonstrations of the telebinocular and other mechanized reading aids are a part of this course. There will be observations in the Training School.

417. Study of Some of the Major Problems of the Grammar Grades.

The student will distribute the working time each week as follows: A minimum of two hours observation in the

Training School, two hours library work, two hours group conference a week, and three hours a week in conference with the instructor. Credit: three quarter hours.

The class divides into working committees with a chairman and a secretary. Each committee schedules its own time and place for meetings. Each student selects some major problem or problems with which he wants to work. A list of these problems is given to the teacher for evaluation before the student begins work on them.

Reports are to be presented both orally to the whole group, and to the teacher in writing with complete records of individual and group activities attached. The chairman of each group keeps a check on attendance for individuals in his group.

Pre-observation conference with the critic teachers is necessary before observing in the room. The groups meet the critic teachers in conferences following the observations.

420. Visual Aids in Education.

Three hours a week. Credit: three quarter hours. For teachers and administrators who wish to make use of objective teaching aids, including the school journey, slides, prints, and the motion picture. Available materials in these fields are surveyed and attention given to the problem of selection and integrated use in the school program.

Sources of supply for all materials and projection apparatus and care of materials and equipment will be considered. A survey of literature in this field will be made.

422. History and Philosophy of Education.

Three hours a week. Credit: three quarter hours.

This course takes up the historical development of the principles and practices of education from the earliest times to the present. Education as an expression of the aims of life for the individual and social group is studied.

423. History and Philosophy of Education.

Three hours a week. Credit: three quarter hours.

This course is a continuation of Education 422.

426. Modern Trends in Secondary Education.

Three hours a week. Credit: three quarter hours. The purpose of this course is to make an analytical study of the shifts and changes of emphasis current in the field of secondary education.

Trends as they are found (a) in current educational literature; (b) in changing emphasis observable in cur-

riculum materials; and (c) in current beliefs as to the functions of the junior high school and the junior college. Special effort is directed to the philosophical antecedents of educational practice.

427. The Beginning and Development of Secondary Education in the United States.

Three hours a week. Credit: three quarter hours.

This course traces the transfer of the secondary school from its origin in Europe to the United States; its early beginnings as a private or semi-private institution here; its development into a tax-supported institution; and its rapid growth and development since 1900.

ENGLISH

Miss Turner, Mr. Baughan, Miss Greene, Miss Grigsby,
Miss Hooper, Miss Jenkins, Mr. Posey

SENIOR AND GRADUATE COURSES

314. Modern Drama.

Winter quarter. Three hours a week. Credit: three quarter hours. Offered in alternate years.

A study of representative modern dramatists—Maeterlinck, Hauptmann, Galsworthy, Barrie, Shaw, O'Neill, and a number of others—with some attention to types and movements.

317. The Essay.

Fall quarter. Three hours a week. Credit: three quarter hours. Offered in alternate years.

A survey of the history of the essay and a study of the various types. Collateral reading required.

319. Modern Poetry.

Spring quarter. Three hours a week. Credit: three quarter hours. Offered in alternate years.

A survey of American and English poetry from 1900 to the present time, including a study of the poetic movements and contemporary trends of the major poets, and representative poems.

326. Romantic Poetry.

Spring quarter. Three hours a week. Credit: three quarter hours. Prerequisite: English 112b. Offered in alternate years.

Wordsworth, Coleridge, Byron, Shelley, and Keats emphasized. Some attention to less important contemporaries.

GRADUATE COURSES

400. a.b.c. Seminar.

Three quarters. Two hours a week. Credit: six quarter hours.

A study of bibliographical practice and method in connection with thesis writing. Advice as to suitable subjects for original research papers and round table discussion of finished products a necessary part of the work.

405. Current Problems in the Teaching of English.

Three hours a week. Credit: three quarter hours.
Prerequisite: English 220.

A critical study of those statistical investigations, laboratory experiments, and philosophical writings which record the status and point out the needs and the prospects in the teaching of English.

413. Studies in English Literature.

One quarter. Three hours a week. Credit: three quarter hours.

Studies in English literature to 1750, selected by the instructor upon consultation with the students.

414. Studies in English Literature.

One quarter. Three hours a week. Credit: three quarter hours.

Studies in English literature from 1750 to 1900, selected by the instructor upon consultation with the students.

415. Principles of Literary Criticism.

One quarter. Three hours a week. Credit: three quarter hours.

A study of the theory and practice of critics, together with written criticisms of prose and poetry.

416. Principles and Types of Poetry.

One quarter. Three hours a week. Credit: three quarter hours.

A study of versification and poetic types.

417. Principles and Practice in Advanced Composition.

One quarter. Three hours a week. Credit: three quarter hours. Prerequisites: English 1, 2, 3, and 213.

Daily themes; criticisms, editorials, book reviews, intimate essays, and related types.

418. Studies in American Literature.

One quarter. Three hours a week. Credit: three quarter hours.

Studies in American literature, selected by the instructor upon consultation with the students.

GEOGRAPHY

Mr. Picklesimer, Mr. Browne, Mr. Cummings

GRADUATE COURSES

410. Geography of World Problems.

Three hours a week. Credit: three quarter hours. Prerequisite: approval of the teacher in charge of the class.

A study of current international problems in the light of their natural environmental setting. Emphasis is placed upon the following topics: geography and the evolution of nations; the expansion of Europe; European influence in world affairs; the British Empire and its many problems; geography and conflicting interests of the war-torn nations of Europe and Asia, and their effects upon the United States.

440. Climatology.

Three hours a week. Credit: three quarter hours. Prerequisite: approval of the teacher in charge of the class.

The first part of the course is devoted to a rapid and intensive survey of climatic controls. This is followed by a study of the various climatic classifications, together with a comparison of the major climatic environments found in different parts of the world. The student will be directed in compiling, graphing, and mapping climatic data, and in interpreting the results.

450. Geography of the South.

Three hours a week. Credit: three quarter hours. Prerequisite: approval of the teacher in charge of the class.

A detailed study of the influences of geography on the development of the several regions of the American South. From the basis of physical complex, through economic products, are traced the lines of force that determine the life and labor of the contemporary South in Cotton Belt and Piney Woods, Delta and Southern Highlands, Industrial Piedmont and Texas Oil Fields, Sugar Bowl and Fishing Fringe, Rice Zone, and Florida Subtropics.

460. Geography of the Orient.

Three hours a week. Credit: three quarter hours.

It is the purpose of this course to assist the student in understanding the geography of eastern Asia in the light

of the present world conflict. The approach is through a study of race, political and social customs; regions and their commodities; and types of industry and commerce.

HISTORY

Mr. Frank, Miss Davis, Mr. Hilldrup, Mr. Hollar

GRADUATE COURSES

400. a.b.c. Seminar.

Three hours a week for three quarters. Credit: six quarter hours.

401. Europe since 1918.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

404. The Renaissance and the Reformation.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

405. History of North Carolina since 1860.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

407. The Civil War and Reconstruction.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

408. United States History since 1877.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

410. Colonial Social and Cultural History.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

411. Ancient Imperialism.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

412. Formation of the Federal Union, 1781 to 1801.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

421. Cultural History of Medieval Europe.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

425. Historiography.

Three hours a week. Credit: three quarter hours. Prerequisite: Graduate standing and 18 hours of history.

431. Social and Cultural History of the United States since 1865.

Three hours a week. Credit: three quarter hours.
Prerequisite: Graduate standing and 18 hours of history.

440. The Evolution of European Nationalism since 1789.

Three hours a week. Credit: three quarter hours.
Prerequisite: Graduate standing and 18 hours of history.

451. Social and Cultural History of the United States, 1789 to 1865.

Three hours a week. Credit: three quarter hours.
Prerequisite: Graduate standing and 18 hours of history.

MATHEMATICS

Mr. ReBarker, Miss Graham, Miss Williams, Miss England

GRADUATE COURSES

400. a.b.c. Seminar.

Three quarters. Two hours a week. Credit: six quarter hours. Required of students writing theses in the field of the teaching of mathematics.

- 425-426. Theory of Equations.

Fall and winter quarters. Three hours a week. Credit: three quarter hours each. Prerequisite: Mathematics 213, 214, and 215.

A study of complex numbers, roots, geometric construction, cubic and quartic equations, graphs, isolation of real roots, solution of numerical equations, determinants, and symmetric functions.

432. Differential Equations.

Fall quarter. Three hours a week. Credit: three quarter hours. Prerequisite: Mathematics 213, 214, and 215.

A study of ordinary differential equations of the first and second orders, and their application to elementary mechanics, with emphasis on geometric interpretation and application.

442. Advanced Calculus.

Spring quarter. Three hours a week. Credit: three quarter hours. Prerequisite: Mathematics 213, 214, and 215.

A study of the definite integral as a sum and its applications, partial derivatives, development in series, and multiple integrals.

443. Solid Analytic Geometry.

Spring quarter. Three hours a week. Credit: three quarter hours. Prerequisite: Mathematics 213, 214, and 215.

A study of coordinate geometry in space, the point, the line, the plane, surfaces of revolution, and quadratic surfaces.

455. Readings and Research in the Teaching of Arithmetic.

Fall quarter. Three hours a week. Credit: three quarter hours.

A study of the field of literature relating to the field of the teaching of arithmetic, with special emphasis on educational research in the teaching of arithmetic.

456. Readings and Research in the Teaching of Secondary Mathematics.

Winter quarter. Three hours a week. Credit: three quarter hours.

A study of educational literature relating to the field of the teaching of secondary mathematics with special emphasis on research in this field.

462. Problems in Mathematics Education.

Winter quarter. Three hours a week. Credit: three quarter hours.

A laboratory course designed for the study of problems in the field of mathematics education relative to specific schools or school systems in which the student is employed or otherwise vitally interested.

NATURAL SCIENCE

Mr. Slay, Miss Austin, Mr. Brandt, Mr. DeLoach,
Miss Humphreys, Mr. Reynolds, Miss Wilton

SENIOR AND GRADUATE COURSES**305. Plant Ecology.**

Spring quarter. Two lectures and four hours of laboratory work a week. Credit: four quarter hours. Prerequisites: Biology 34, 35, 36, and Botany 212, 213, or their equivalent. Laboratory fee, \$2.00.

Field study of local plant communities from the standpoint of environment and its controlling factors.

312. Food Chemistry.

Spring quarter. Two lectures and four hours of laboratory work a week. Credit: four quarter hours. Prere-

quisite: 24 hours of science including organic chemistry. Laboratory fee, \$2.00 and breakage.

A course designed to accompany a more advanced study of foods. Food classification, analysis, detection of adulterants, and tests for the detection of specific foods.

325. Animal Ecology.

Two lectures and four hours of laboratory work a week. Credit: four quarter hours. Prerequisite: a year of biology. Laboratory fee \$2.00.

A study of the relationships of animals to each other, to plants and to physical factors in their environments.

330. Heredity.

Spring quarter. Three hours of lecture a week and two hours of laboratory work per week optional. Credit: three or four quarter hours. Prerequisites: Biology 34, 35, 36, or their equivalent or consent of instructor.

A study of the laws of heredity and their application in evolution and eugenics. The laboratory work includes experiments with the fruit fly, *Drosophila melanogaster*.

350. Histology.

Fall quarter. Two lectures and four hours of laboratory work a week. Credit: four quarter hours. Prerequisite: At least two years of college biology. Laboratory fee, \$2.00.

Slides of plant and animal tissues are prepared. Students learn to identify plant and animal tissues from these slides. Students are given the opportunity to prepare a collection of slides for their own use.

360. Child Health Problems.

Three hours a week. Credit: three quarter hours.

A study of the child from infancy through succeeding periods of growth and development. Special emphasis on the pre-school child and early adjustments of the school child.

365. School and Community Health Problems.

Three hours a week. Credit: three quarter hours.

A study of the activities involved in maintaining and improving school and community health. Special emphasis on milk supply, food inspection, water supply, sewage disposal, and control of communicable diseases. Students will make field trips to observe various public health activities.

370. Methods and Materials in Health Education.

Three hours a week. Credit: three quarter hours.

A study of some practical principles of health education

designed for application in elementary and secondary schools. Special reference to sources of material available to aid health instruction. Emphasis on planning well-integrated units for personal and community health study.

GRADUATE COURSES

400. a.b.c. Seminar.

Two hours a week. Three quarters. Credit: six quarter hours.

406. Embryology.

Winter quarter. Two lectures and four hours of laboratory work a week. Credit: four quarter hours. Prerequisite: Two years of college biology. Laboratory fee, \$2.00.

The early development of the vertebrates is studied, including the formation of the systems of organs. The development of some one vertebrate is studied in the laboratory. Slides showing this development are prepared by the students.

408. Plant Anatomy and Morphology.

Winter quarter. Two lectures and four hours of laboratory work a week. Credit: four quarter hours. Prerequisites: Biology 34, 35, 36 and Botany 212, 213, or their equivalents. Laboratory fee, \$2.00.

A study of the origin and development of structures found in vascular plants. A study of both prepared slides and fresh materials which the student will prepare in the laboratory.

410. Contemporary Science.

Fall, winter or spring quarter. Three hours a week. Credit: three quarter hours. Prerequisite: Two years of college science.

Lectures, readings, reports, and discussions concerning the development of scientific thought with emphasis on recent advances.

420. Investigations in Elementary Science.

Three hours a week. Credit: three quarter hours.

A course designed to offer opportunities for special investigations in the field of elementary science.

430. The Teaching of General Science in Secondary Schools.

Fall quarter. Three hours a week. Credit: three quarter hours.

This course deals with content, methods, laboratory work, equipment, textbooks, tests, and reference readings of the introductory course in high school science. Attention will be given to the special studies made in the field of general science.

440. Teaching of the Biological Sciences in Secondary Schools.

Fall quarter. Three hours a week. Credit: three quarter hours.

This course deals with the content, methods, laboratory work, equipment, textbooks, tests, and reference readings of the high school course in biology. Attention is given to the special studies made in the field of the high school biological studies.

455. Experimental Evaluations in Science Education.

Three hours a week. Credit: three quarter hours.

This course deals with the evaluation of science texts and reference material; classroom and laboratory equipment; and the coordination of the various sciences.

465. Current Problems in Science Education.

Three hours a week. Credit: three quarter hours.

This course deals with the current investigations in science education; critical evaluations of techniques, materials, results, and conclusions.

475. Historical Development of School Science.

Three hours a week. Credit: three quarter hours.

This course traces the development of the study of science from its early stages to the present time. Special emphasis is placed upon the development of the present day secondary school sciences.

480. Advanced Problems in the Physical Sciences.

Three hours a week. Credit: three quarter hours.

This course deals with the fusion of chemistry and physics as experienced in natural settings. Many demonstrations are included.

485. The Lives and Works of Great Men of Science.

Three hours a week. Credit: three quarter hours.

This course deals with the development of science as portrayed by the contributions of noted scientists. The private lives and environments of these individuals will be stressed.

PSYCHOLOGY

Mr. Adams, Miss Charlton, Mr. Haynes, Mr. Henderson,
Miss Newell, Mr. McGinnis

SENIOR AND GRADUATE COURSE

340. Psychology of Adolescence.

Three hours a week. Credit: three quarter hours.
Prerequisite: Psychology 103, or its equivalent.

This course is intended to make a study of pre-adolescence and adolescence. Behavioristic changes that are concomitant with the physiological changes of adolescence; their meaning and treatment in education training; social institutions designed to meet these changes, such as Boy Scouts and Campfire Girls, are some of the topics given consideration.

GRADUATE COURSES

410. Mental Tests and Measurements.

Any quarter on demand. Three hours a week. Credit: three quarter hours. Prerequisite: Psychology 103 or its equivalent.

Aim: To acquaint the student with mental tests and measurements.

Topics: Group and individual tests; the technique of giving and scoring; interpretation of results; uses in classifying and promoting children; study of intelligence and its measurements.

411. Psychology of Learning.

Three hours a week. Credit: three quarter hours.
Prerequisite: Psychology 103 or its equivalent.

Aim: To provide for the student a working knowledge of the laws of learning and habit formation.

Topics: Animal learning; human learning; habit formation; analysis of the laws of learning. Experimental work is continued throughout the course.

421. Social Psychology.

Three hours a week. Credit: three quarter hours.
Prerequisite: Six hours in Psychology, including 103.

In this course a study is made of the innate tendencies that are stimulated by other beings and their behavior. Also the organization of group attitudes, such as cooperation, opposition, etc., and group habits, customs, language, and imitation.

SOCIAL SCIENCE

Mr. Wright, Mr. Flanagan, Mr. Toll

SOCIOLOGY**GRADUATE COURSES****401. Racial Anthropology.**

Three hours a week. Credit: three quarter hours.
A study of the origin and development of the races of man.

402. The development of Social Thought.

Three hours a week. Credit: three quarter hours.
A history of social thought, including the outstanding social philosophies of the past and their influence in the development of culture.

403. Social Legislation.

Three hours a week. Credit: three quarter hours.
A survey of the major types of social legislation in the United States and especially in North Carolina.

ECONOMICS**GRADUATE COURSES****402, 403. Advanced Labor Problems.**

Three hours a week. Credit: three quarter hours each.
An intensive and critical study of the major problems of industrial relations.

410, 411. Problems in Public Finance.

Three hours a week. Credit: three quarter hours each.
A summary sketch of principles of public finance, followed by an intensive and critical study of tax systems and of the various policies and programs adopted by governments for raising and spending revenue.

420, 421. History of Economic Thought.

Three hours a week. Credit: three quarter hours each.
Prerequisite: Graduate standing and 9 hours in elementary economics.

These courses treat such topics as the origin, nature and development of economic thought; economic thought of the ancients; the evolution of economics as a science; general account of recent leading schools of economic thought.

GOVERNMENT**GRADUATE COURSES**

401. International Relations.

Three hours a week. Credit: three quarter hours.

A study of international organization and relationships.

402. The Growth of Constitutional Government.

Three hours a week. Credit: three quarter hours.

A study of the history and growth of constitutional development with emphasis upon the sources of the American Constitution.



CLIFTON BRITTON

*Founder of the Chi Pi Players, and
Director of Dramatics at East
Carolina Teachers College.*

